MINAYEVA, Ye.V.

Building underground structures using industrial methods. Vod. ison. tekh. no.8:25-28 Ag 164 (NICA 18:1)

85349

5/120/60/000/005/019/051 E032/E514

9.4130 (2301,2801,3001)

Matveyev, V.V., Minayeva, Ye. Ye. and Sokolov, A.D.

AUTHORS:

Measurement of the Anode Current of Photomultipliers

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, No.5, pp.86-89

The anode currents of Soviet photomultipliers (types ФЭУ-29 (FEU-29), 24, 13, C (S), 23) were investigated as TEXT: functions of the magnetic field. It was found that the properties of these photomultipliers as far as the effect of the magnetic field is concerned are identical with the RCA 5819 and RCA 6199 photomultipliers. The limiting magnetic field lies in the neigh-There are 4 figures and 8 references: bourhood of 0.5 0e. 4 Soviet and 4 English.

SUBMITTED: August 26, 1959

Card 1/1

5/120/62/000/001/035/061 E192/E382

Matveyev, V.V., Minayeva, Ye.Ye. and Sokolov, A.D.

Investigation of the temperature-dependence of the AUTHORS: TITLE:

parameters of photomultipliers

Pribory i tokhnika eksperimenta, no. 1, 1962, PERIODICAL:

The operating-temperature range of scintillation equipment is largely dependent on the thermal stability of the parameters of photomultipliers used in the equipment. The TEXT: temperature stability of the photomultipliers was therefore investigated, firstly by considering the available experimental data and, secondly, by carrying out some special measurements.

The available data (for a number of American du Mont and RCA tubes and Soviet devices) covered the temperature range from -50 to +50 °C and were measured under pulsed conditions such that the light spectrum covered the range from 3 500 to 6 000 Å. It is found by examining these data that the temperature coefficient of the photomultipliers, even of the same type,

Card 1/5

5/120/62/000/001/035/061 E192/E382

Investigation of

changes its sign; in most cases, the coefficient is negative for wavelengths of less than 4 000 Å but becomes positive above 5 000 A. This seems to indicate that the photocathode plays an important part in the thermal instability of photomultipliers. In order to clarify this problem, the temperature characteristics of a number of Soviet photomultipliers was measured by employing a suitable climatic-test chamber. The temperature of the chamber could be varied from -50 to 100 °C. The photocathodes of the tubes were illuminated by means of pulsed sources based on a lamp, type 1/ -- 8 (MN-8), as described in Ref. 12 (Matveyev and Sokolov - Apparatura dlya yadernoy spektrometrii (Sb. nauchn. rabot) 1960, Atomizdat). The effect of the spectral composition of the light was measured by using a number of narrow-band (100 Å) light filters. It was found that the highest temperature stability was obtained in photomultipliers, type \$\Q\text{9}\y-11 (FEU-11), which are provided with dynodes made of an alloy and an Sb-Cs photocathode deposited on a metal base. The effect of the photocathode was investigated

Card 2/3

S/120/62/000/001/035/061 E192/E382

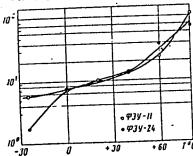
Investigation of

by illuminating it with monochromatic light of the following wavelengths: 4 170; 4 630; 5160 and 6100 Å. It was found that in this case the overall sensitivity, as a function of temperature, varied not only in magnitude but also in sign. The equivalent noise of the photomultipliers was also measured and this is illustrated in Fig. 3, where its level in relative units is plotted for two photomultipliers (FEU-11 and FEU-24). The authors thank V.V. Khodakova and A.V. Koslyadin for help in this work. There are 4 figures and 2 tables.

SUBMITTED:

June 20, 1961

Fig. 3:



Card 3/3

MATVETEV, V.V.; MINAYEVA, Ye.Ye.; SOKOLOV, A.D.

Design of electromagnetic screens for photomultipliers. Prib. i tekh.

(MIRA 16:4)

(Photoelectric multipliers)

BIDZHIYEV, R.A.; MINAYEVA, Yu.I.

Stratigraphy of Jurassic sediments in the northern fault of the Verkhoyansk piedmont region. Geol. i geofiz. no.11:47-62 '61. (MIRA 15:2)

1. Vsesoyuznyy aerogeologicheskiy trest, Moskva. (Verkhoyansk Range--Geology, Stratigraphic)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410008-9"

₩.

MINAYEVA, Yu.I.; BIDZHIYEV, R.A.

Middle Paleozoic weathering surface in the northeastern part of the Siberian Platform. Trudy VAGT no.8:21-24 '62. (MIRA 15:11) (Siberian Platform--Weathering)

BIDZHIYEV, R.A.; MINAYEVA, Yu.I.

Source material in the formation of Jurassic sediments in the northern Verkhoyansk piedmont and the adjacent part of the Vilyuy syneclise. Trudy VAGT no.8:1/2-49 '62. (MIRA 15:11) (Verkhoyansk range region—Petrology)

5/0208/64/004/001/0171/0177

ACCESSION NR: AP4012012

AUTHOR: Minaylos, A. N. (Moscow)

TITLE: Supersonic flow over blunt bodies of revolution at angles of attack

SOURCE: Zhurnal vy*chisl. matem. 1 matem. fis., v. 4, no. 1, 1964, 171-177

TOPIC TAGS: ideal gas, supersonic flow; blunt bodies, angle of attack, differen-

ABSTRACT: The direct method with integral relationships and two-variable intertial equations polation has been used to study the flow of an ideal supersonic gas stream over a blunt body of revolution at small angles of attack. A body-centered curvilinear coordinate system x, y, Q is used and (see Enclosure) the compressible ideal gas flow equations are nondimensionalized relative to the body radius and free stream conditions. The simplest model is assumed with single strip between shock wave and body surface, N= 1, and a single strip P= 1 between the planes 0= 0 and 0= N. Partial differential equations are transformed into ordinary differential equations for independent variable x and unknown functions U, E, or and w at 0- 0 and N. The equations are integrated from x= 00, for a sphere at angles of attack, 0, 30, 80 and Mach number 6. The calculation results are compared to the experimental results

Card 1/3

ACCESSION NR: AP4012012

of D. Fraasa (in experimental investigation of hypersonic flow over blunt-nosed bodies at a Mach number of 5.8. CALCIT Report 1957, No. 2, 75 pp.) and agreement is found to be good. Orig. art. has: 17 equations and 3 figures.

'ASSOCIATION: none

SUBMITTED: 21Dec 62

DATE ACQ: 14Feb64

ENCL: 01

SUÉ CODE: AS

NO REF SOV: OOL

OTHER: 007

Card 2/3

APPROVED FOR RELEASE: 06/14/2000

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L 54622-65 ACCESSION NR: AR5009898

S/0299/55/000/005/B029/B029

SOURCE: Ref. sh. Biologiya. Swodnyy tom, Abs. 58222

AUTHOR: Minbayev, R.; Konev. Yu. Ye.

TITIE: Actinomycetes from the desert poils of Kyzyl-Kum which form phytopathogenic fungi

CITED SOURCE: Sb. Materialy 2-y Konferentsii molodykh uchenykh Leningr. in-ta antibiotikov, 1964, L., 1964, 57-58

TOPIC TAGS: actinomycete, phytopathogenic fungus, antibiotic

ABSTRACT: The antagonism of 507 strains of actinomycetes from untreated sandy soils of the southwestern part of the Kyzyl-Kum Desert was studied. Of the strains which were studied, 82 possessed antifungous properties. The more active producers which

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were studied, 82 possessed antifungous properties. The more active producers which had antagonistic actions with respect to phytopathogenic fungi were selected for further study. Three of them synthesized polyene antibiotics; three of the others synthesized a mixture of antibacterial and antifungous substances. An identification was made of the strains which were isolated according to mosphological, cul-

Card 1/2

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ral, and physiological of terature there are no spectucers of non-polyene a ined from the culture li ytopathogenic fungi. (characteristics. Among pecies completely identi antifungous antibiotics. lquid of these strains w	cal with the des	raw material ob-
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JEFREMOV, D.V.; MESCERJAKOV, M.G.; MINC, A.L.; DZELEPOV, V.P.; IVANOV, P.P.;
KAMYSEV, V.S.; KOMAR, J.G.; MALYSEV, I.F.; MONOSZON, N.A.; NEVJAZSKIJ,
I.Ch.; POLJAKOV, B.I.; CESTNOJ, A.V.; BEHDA, Frantisek [translator]

The six meter synchrocyclotron of the Institute for Research on Nuclear Problems affiliated to the Academy of Sciences of Soviet Union. Jaderna energie 3 no.1:1-4 Ja '57.

1. Ustav jaderne fysiky (for Benda).

VLADIMIRSKIJ, V.V.; KOMAR, Je.G.; MINC, A.L.; GOL'DIN, L.L.; KOSKAREV, D.C.;
MONOSZON, N.A.; NIKITIN, S.Ja.; RUBCINSKIJ, S.M.; SKACKOV, S.V.;
STREL'COV, N.S.; TRASOV, Je.K.; MEDONOS, S., inz. [translator]

Main characteristics of the planned proton accelerator for 50-60 BeV energy with sharp focusing. Jaderna energie 3 no.2:56-57 F 157.

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VEKSLER, V.J.; VODOPJANOV, A.F.; JEFREMOV, D.V.; MINC, A.Z.; VEISBEIN, M.M.;

GASEV, M.G.; ZEJDLIC, A.J.; IVANOV, T.P.; KOLOMENSKIJ, A.A.; KOMAR, E.G.;

MALYSE, J.E.; MONOSZOH, M.A.; HEVJAZSKIJ, J.Ch.; PETUCHOV, V.A.;

RABIHOVIC, V.A.; RUBCINSKIJ, S.N.; SIHENIKOV, K.D.; STOLOV, A.M.;

KULT, Karel, inz.

The synchrophasotron for particle acceleration to 10 BeV energy of the Soviet Academy of Sciences. Jaderna energie 3 no.1:5-9 Ja 157.

1. Ustav jaderne fysiky (for Kult).

MINC, B.

"Fifth Soviet Five-Year Plan". p. 362 (Problemy, Vol. 9 no. 5, 1953 Warszawa.)

Vol. 3, no. 6
SO: Monthly List of East European Accessions./Library of Congress, June 1954, Uncl.

MINC, Bronislaw

Planowanie Gospodarki Narodowej (Planning of the National Economy). Warsaw, Panstwowe Wydawnictwo Naukowe, 1955. At the head of title: Polish Academy of Sciences Department of Economic Sciences.

55M/6 783/3 .m64 (PT.)

MINC, Bromislaw, prof. dr.

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Problem of economic effectiveness of scientific research.

Problemy 20 no.8:463-465 •64

1. Head, Department of Political Economy, Dean, Division of Finance and Statistics, Central School of Planning and Statistics, Warsaw.

MINC, L.

Minc, L. Samochod, budowa i eksploatacja. Pod red. Pawla Solskiego. (Warszawa)

Minc, L. Samochod, budowa i eksploatacja. Pod red. Pawla Solskiego. (Warszawa)

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Minc, L. Samochod, budowa i eksploatacja. Pod red. Pawla Solskiego. (Warszawa)

SO: Monthly list of East European Accessions, LC, Vol. 3, No. 1, Jan. 1954, Uncl.

MINC. L.

(MOTORZACJA, Vol. 8, No. 12, Dec. 1953, Warszawa, Poland)
"How a social order affects the development of the automobile." (To be contd.)
p. 330.

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, L.C., Vol. 3, No. 4, APRIL 1954

MINC, L.

(MOTORYZACJA, Vol. 9, No. 1, Jan 1954, Warszawa, Poland)
"How the social order affects the development of the automobile." (To be contd.) p. 4.

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, Vol. 3, No. 4, 1954)

MINC, L.

"How the Social Structure Affects the Development of Automobiles." p. 37. (MOTORYZACJA, Vol. 9, No. 2, Feb. 1954. Warszawa, Poland.)

SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 3, No. 12, Dec. 1954, Uncl.

MINC, L.

"Outlook for Development of the Technical Automobile Service." p. 159, (MOTORYZACJA, Vol. 9, No. 6, June 1954. Warszawa, Poland.)

SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 3, No. 12, Dec. 1954, Uncl.

MINC, L.

"Traffic Speed and Road Clearance." p. 192, (MOTORYZACJA, Vol. 9, No. 7, July 1954. Warszawa, Poland.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

MINC. L.

"Constructional foundations of a motor truck for heavy loads." p. 362. (MOTORYZACJA, Vol. 9, No. 12, Dec. 1954. Warszawa, Poland)

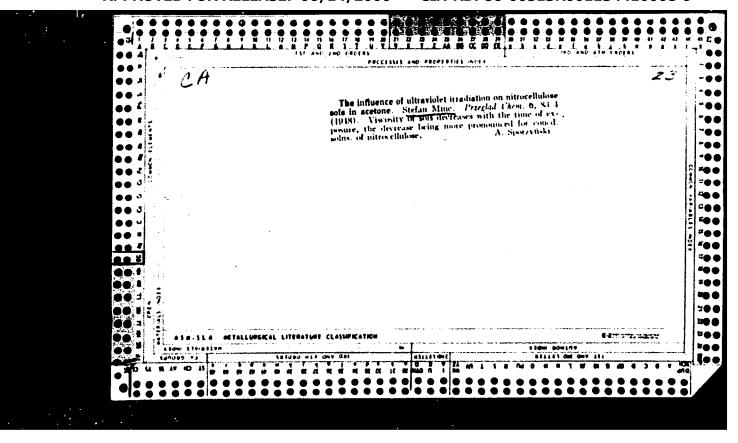
SOL Monthly List of East European Accessions. (MEAL). LC. Vol. 4, No. 4. April 1955. Uncl.

MINC. L.

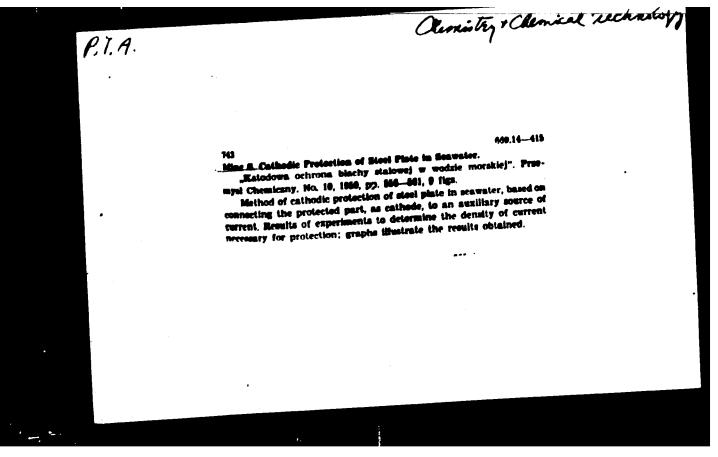
Trends in the development of the Polish automobile industry from the point of view of export. p. 341. Vol. 10, no. 11, Nov. 1955. Moboryzacja.

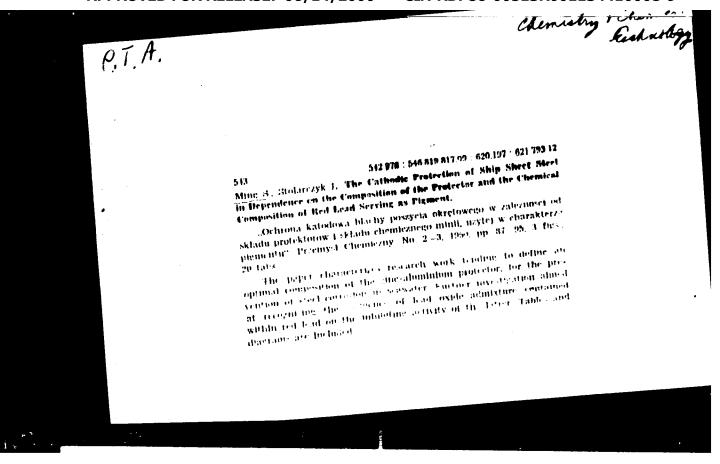
SOURCE: East European Accessions List (EEAL), LC. Vol. 5, no. 3, March 1956.

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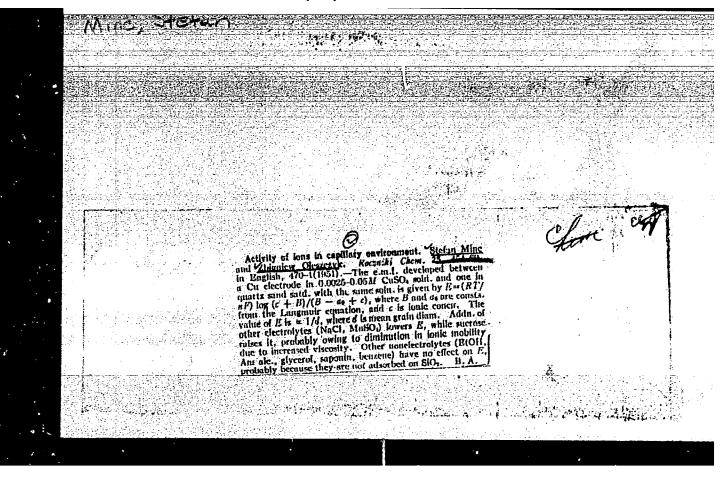


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URBANSKI, Tadeusz, S.; MINC, Stefan

Solvent extraction of cations with alkyl phosphoric acids from sulfate solutions. I. Solvent extraction of U VI and FeIII with dodecyl phosphoric acid in the presence of different cations. Nukleonika 6 no.12:765-773 161.

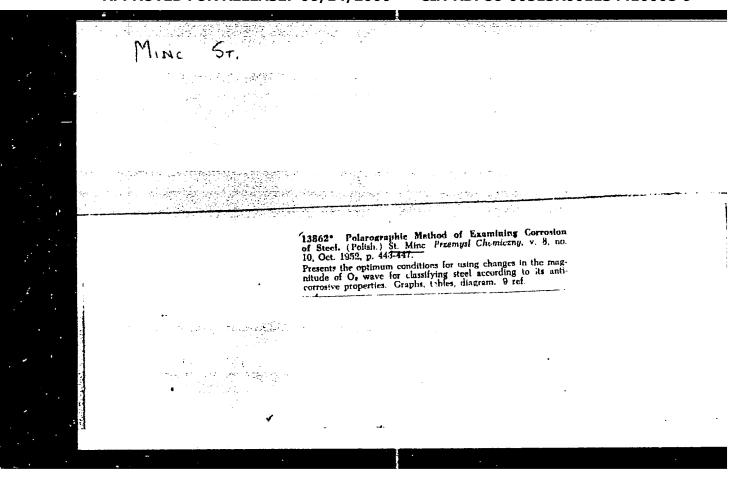
1. Nuclear Research Institute, Polish Academy of Sciences, Warsaw, Laboratory of Chemical Technology and Chair of Physical Chemistry, University, Warsaw.

Polish Technical Abst. No. 4, 1953 Mechanics, Electrotechnics, Power

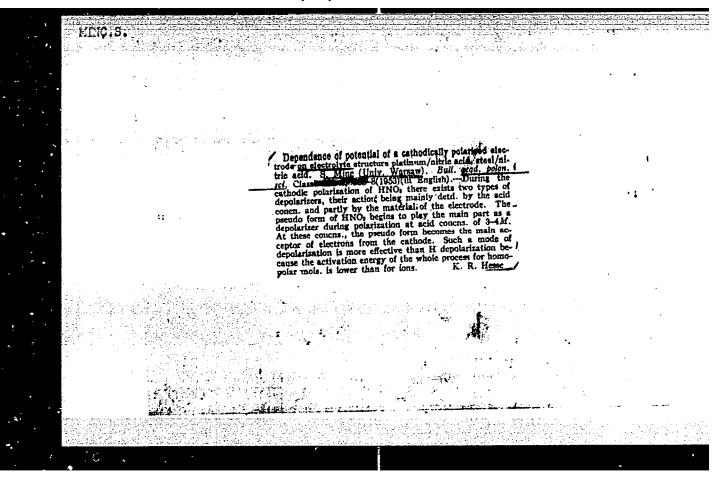
MING, =.

2423 627.26:620.197.6.001,5:669.14 Mine S., Bieguszewski Z., Knoch L. Cathodic Protection of Marine Steelwork. Ochrona katodowa stalowych konstrukcji morskich. Technika i Gospodarka Monska. No. 3, 1952, pp. 129-133, 3 figs. Test results over the potential of cathode-protected experimental steel sheet-puling sections, by connecting them to an outside source of electric current. Description of measurements taken and of results obtained in the ports of Gdanak and Gdynia. It was found necessary to examine such further parameters as are essential for designing cathodic means of protection. The article deals, moreover, with the theoretical principles of this particular method of protecting steel from corrosion.

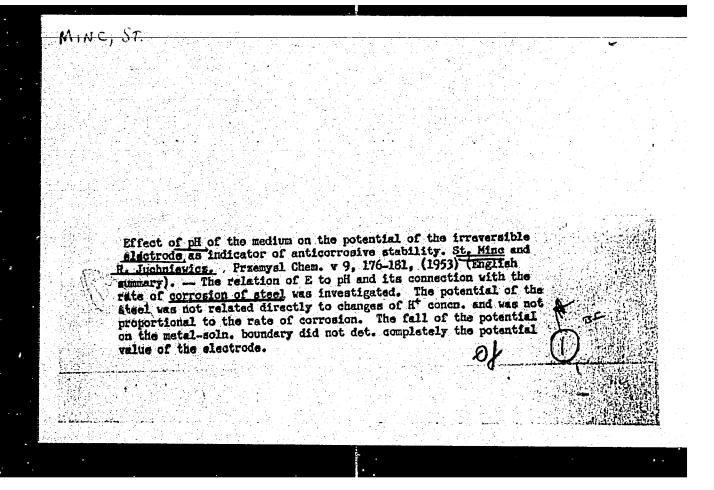
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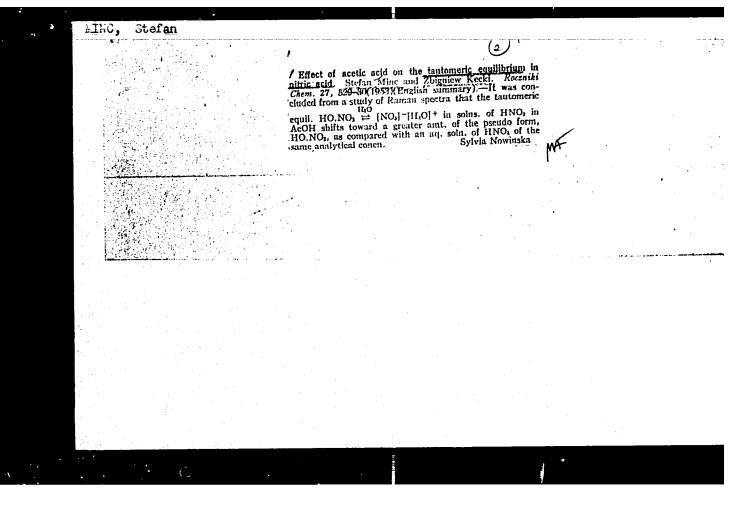


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MINC, Mine S. Juchniewicz R. Contingence of the Potential of the Irreversible Medicade on the pH-Value of the Medium, as an Indicator of Antiocercaive Blability. "Zależność potencjału nieodwracalnej elektrody (athil) od pH środa-Polish Technical Abst. wiska, jako wskaźnik trwałości antykorozyjnej". Przemyst Chemiczny No. 1 1954 No. 4, 1953, pp. 176-181, 14 figs., 1 tab. Chemistry and Chemical Various types of steel were experimented with in order to deter-Technology mine the E-pH relation and to link it with the rate of corrosion in experimental conditions. The potential of the types of steel experimented with connot be determined by the direct dependence of individual changes in the concentration of hydrogen ions and is not proportional to the rate of corrosion. The fall in the potential at the metal/solution boundary does not exactly decide as to the potential value of the electrode.





Chemical Abst.

Chemical Abst.

Voir. 48 No. 9

May 10, 1954
General and Physical Chemistry

Chemistry

Chemical Abst.

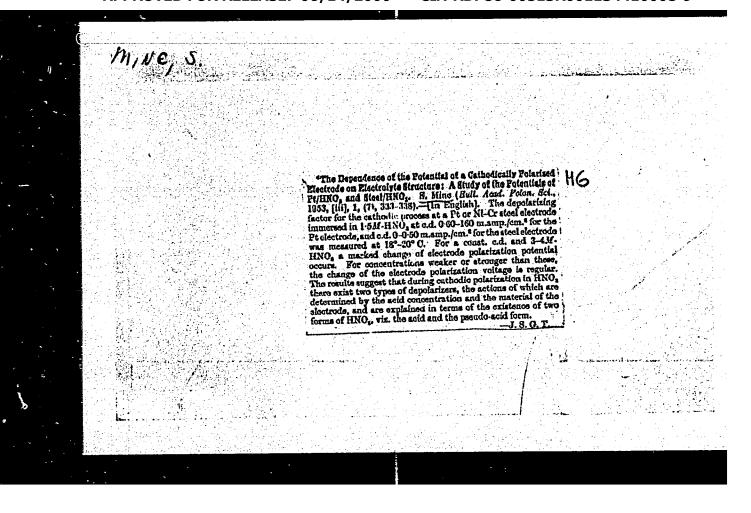
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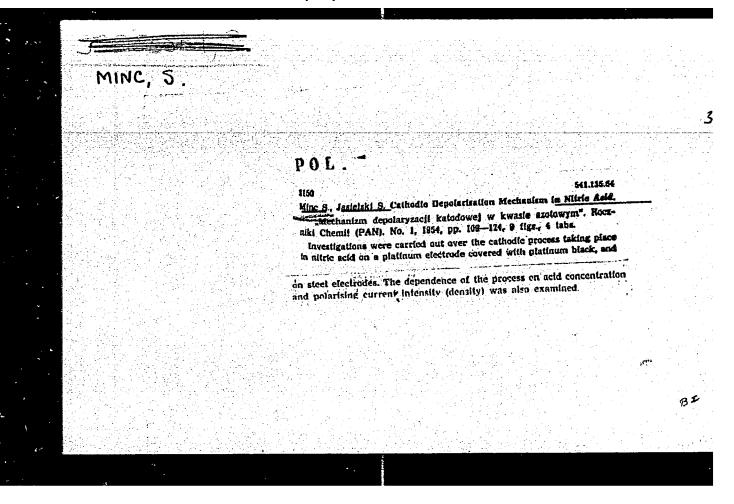
Militarial W. Libuf (Univ. Warsaw). Recensive Circles and 910 mg, present like show extinction curves of Circles and 910 mg, present place of solvation of Curve with Either Consumer of Solvation of Curve water to 96% alc. indicates only moderately selective solvation of Curve with water.

M. Falk

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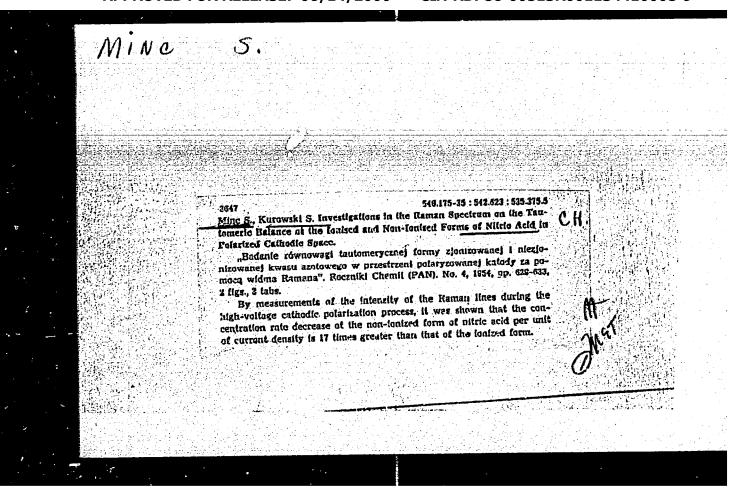
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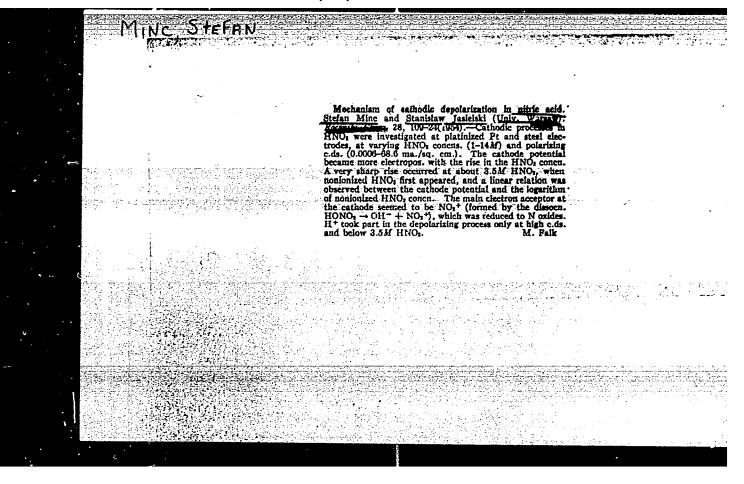
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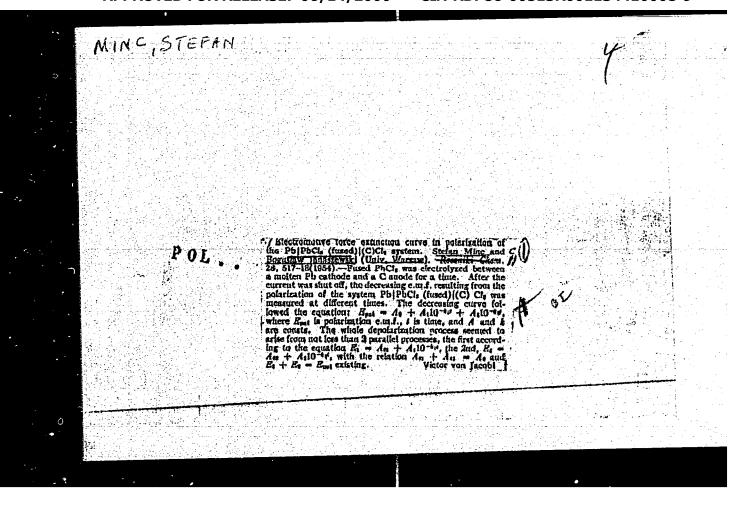
Mino, S., Stolarczyk, L. Investigation of Electrochemical Corresion in Liquids of Low Dielectric Constants.

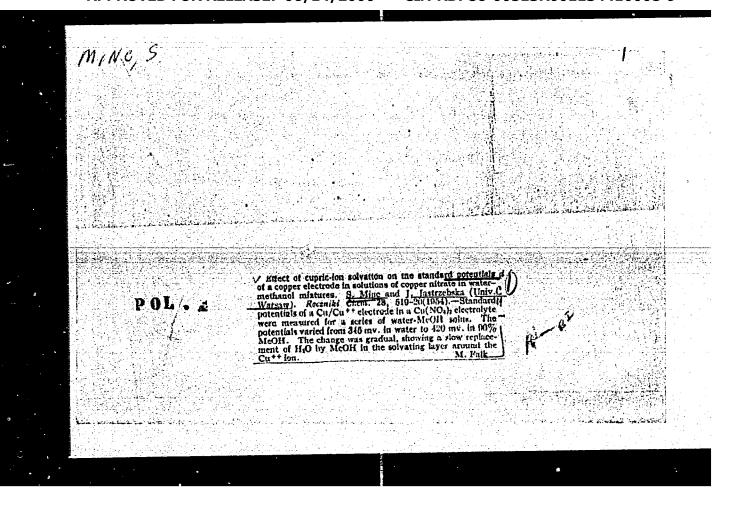
"Badania korozji elektrochemicznej w cieczach o niekich stalych dielektrycznych" Przemyel Chemiczny. Mo. 2, 1954, pp 69-72, 17 figs. 3 tabe.

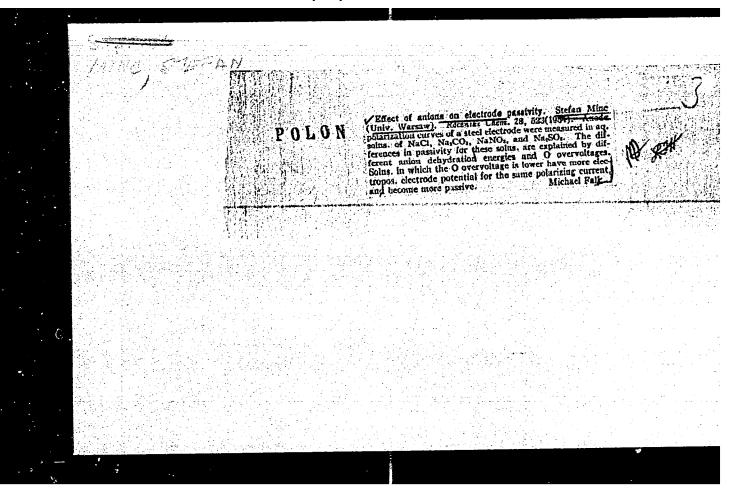
The investigation concerned the behaviour of various metals linked in pairs (steel, copper, brass, aluminium) in rectified ethyl alcohol, denatured spirit, crude distillery spirit, in different fractions obtained from the distillation of crude spirit, as well as in solutions of codium sulphite and urea, dissolved in the same liquids. It was found that: 1) in the liquids examined electrochemical corrosion of the anodes takes place. This corrosion is stronger in liquids of higher specific conductivity and on anodes having a greater difference of potential in relation to the respective cathodes; 2) the corrosion of the anodes appears in the form of point-corrosion; 3) among the substances examined for influence on corrosion, urea showed an inhibitory effect in copper-steel and brass-steel systems.

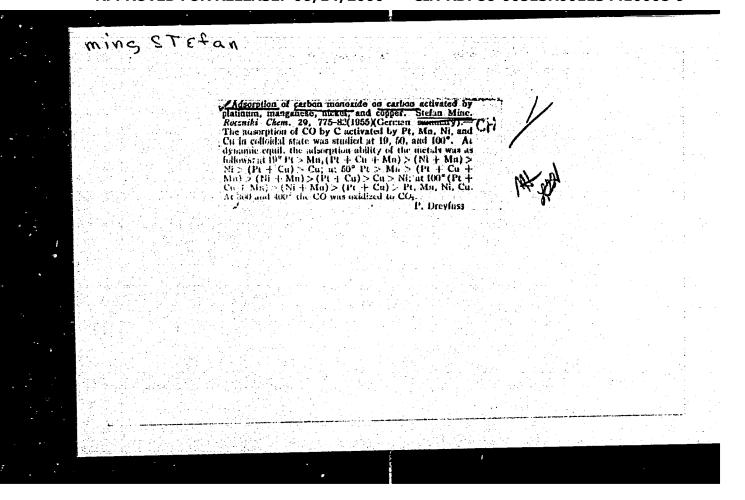


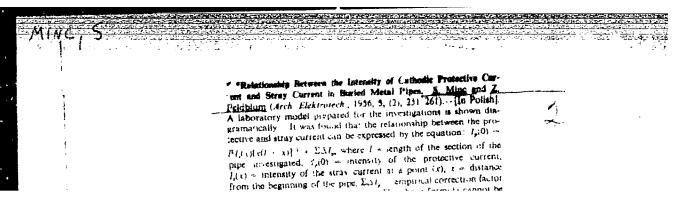


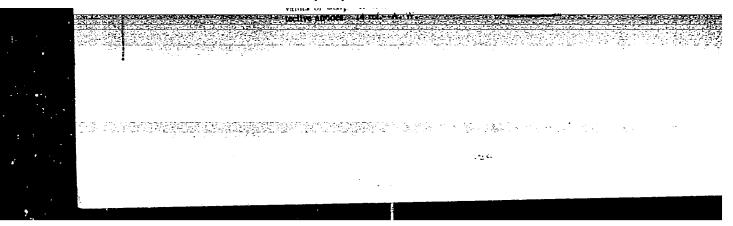












MING, S.

B-12 Casegory: Poland

Abs Jour: R Zh--Kh, No 3, 1957, 7675

Author : Minc, S. and Sobkowski, J.

: Not given

: The Effect of Solvation on the Activation Energy of Hydrogen Ion Inst Title

Discharges in Organic Solvents

Roczn. Chem., 1956, Vol 30, No 1, 351-352 (in Polish with a summary Orig Pub:

in English)

The hydrogen overvoltage at an Hg-electrode has been measured at 19.7-Abstract:

58.6° in 0.1N HCl solutions in ethanol, methanol, and water, using current densities i of 10-5-2x 10-3 amp/cm2. The activation energy for hydrogen ion discharges in these solutions, calculated by a previously proposed formula (J. O'M. Bockris et al, Trans. Far. Soc., 1951, 47, 766), is 18.8, 19.6, and 21.4 kcal/gm-ion, respectively,

at 200.

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IIIU, ST WAR

Stefan Minc and Wlodzimierz Libus: "Solvation of Copper and Cobalt Ions in Water-Alchohol Mixtures. II. Absorption Spectra of Copper and Cobalt Titrates in Water and Absolute Aliphatic Alcohols. "Roczniki Chemii, Vol 30, No 2, Marsaw, 1956. Published from the Rosearch Laboratory of Electrochemistry and Corrosion, Warsaw University, 29 Oct 55.

TTE, STEEL

Stefan Minc and Ebigniew Rechi: "Investigations by Heans of the Raman Spectrum of the Influence of Redium on the Structure of Mitric Acid, "Roczniki Chemii, Vol 30, No 3, Marsaw, 1956. Published from the Research Laboratory of Mestrochemistry and Corrosion, Marsaw University, 3 Jan 51.

HEED, STHEAN

Stefam Mine and Wlodzi ders Libus: "Solvation of Charle and Cobaltons In Water-Alcohol Mixtures. III. Absorption Spectra of Cupric and Cobaltons Mitrates in Two-Component Systems. "Moczniki Chemi, Vol 30, Mo 3, Warsaw, 1956.
Published from the Research Laboratory of Wheetrehemistry and Correston, Warsaw University, 3 Jan 96.

MING, S.; FELDBLUM, Z.,

The study on Jathodic Protection Against Corrosion with Stray Currents, Part III by S. MINC and Z. FELDELIM, Page 140, Przemysl Chemiczny, No. 8, 1957, p. 440.

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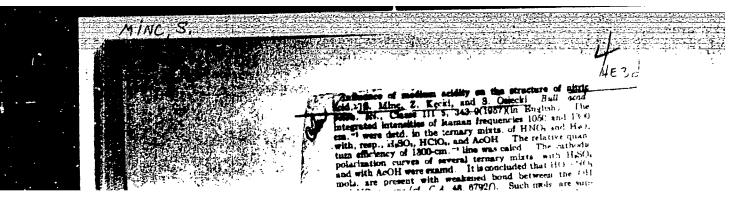
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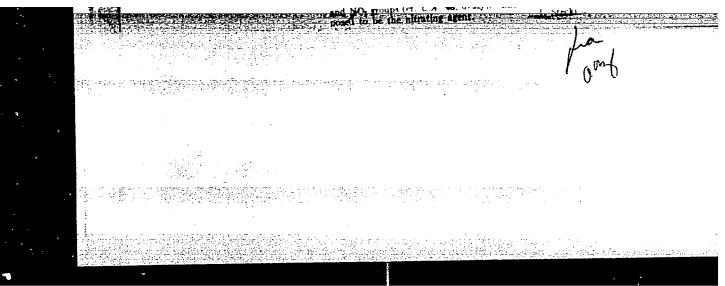
MINC, S.

"4th Conference on Electrochemistry in the Soviet Union."

p. 95 (Kosmos. Serbia B: Przyroda Nieozywiona) Vol. 3, no. 1, 1957 Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958





'POLAND / Chemical Technology. Corrosion & Its Prevention.

Η

Abs Jour: Ref Zhur-Khimiya, No 12, 1958, 40006.

: Mints. Feldblyum. Author

Not given. Inst

: Investigation of the Cathode Protection from the Title Action of Wandering Currents. I. The Cathode Protection from Harmful Action of Wandering and

Protecting Currents.

Orig Pub: Przem. Chem., 1957, 13, No 6, 330-332.

Abstract: According to the method suggested by the authors, the identity of the interaction between a protecting current of a cathode protection and a wandering current on a pipe system was established (in the case of the same direction of flow, as well as in the case of their reverse direction). An

Card 1/2

8

POLAND / Chemical Technology. Corrosion & Its Prevention.

Η

Abs Jour: Ref Zhur-Khimiya, No 12, 1958, 40006.

Abstract: equation is given which determines the magnitude of the protection current of a cathode protection, depending on the magnitude of a wandering current and the distance from the initial point on the pipe system. The obtained results verify those previously established by the authors, i.e., the common nature of the relation between a minimum current strength of a cathode protection from corrosion caused by wandering currents, and their magnitude, The latter is measured at any point on the pipe system, whenever the source of the wandering current has a final load.

Card 2/2

4

Chemical Products and H-4 POLAND / Chemical Technology. Their Application. Corrosion. Corrosion Control.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1663.

: Minc, S., Feldblum, Z. : Not given. Author

Inst

: An Investigation on the Protection of a Cathode Title from Wandering Currents. II. The Voltage Drop in a Wandering Current at a Non-Concentrated Cur-

rent Load.

Orig Pub: Przem. chem., 1957, 13, No 7, 382-383.

Abstract: A method described for laboratory experiments on investigating the effectiveness of cathode protection in underground pipe lines. It is pointed out that the tests were conducted at the current intensity of 50-100 milliamperes, resistance of

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POLAND / Chemical Technology. Chemical Products and H-4
Their Application. Corrosion. Corrosion Control.

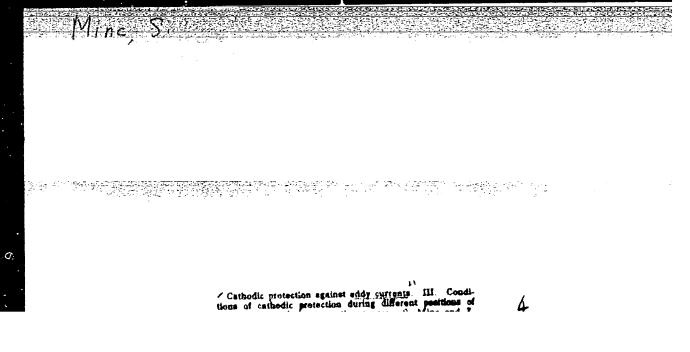
Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1663.

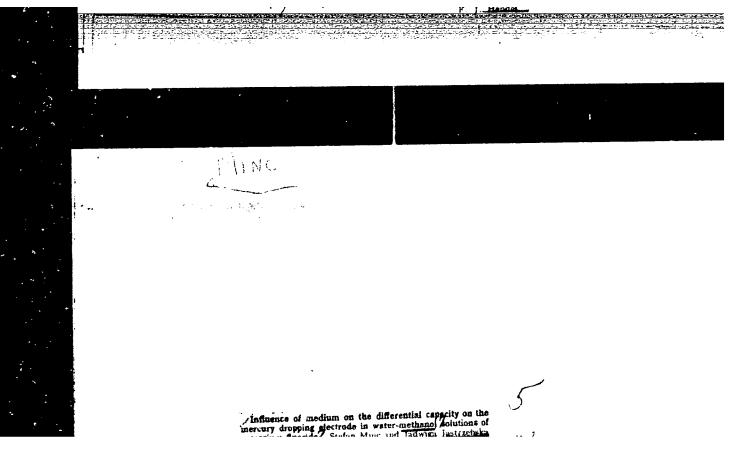
Abstract: 1/7 x 10⁵ - 3 x 10⁶ cohm. centimeter and soil moisture of 3-6%. On the basis of the voltage decomposition measured on a bar, of wandering current in a pipe and of the current flowing through a bar, six diagrams are submitted for calculating and determining the nature of cathode protection in the case of a non-concentrated current load.

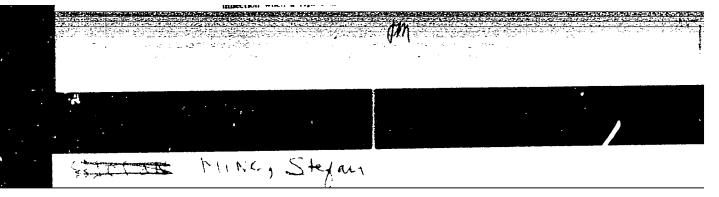
III. The investigations of a protective current distribution were conducted on a model representing an underground pipe line at a current density of 4-20 milliamperes, specific soil resistance of 1.2 x 10⁵ ohm. centimeter and 4-6% moisture. The

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11







Distr: 483d

Preparation of metallic thorium in compact form by electrolysis of fused salts. Stefan Mine Wadis Rafsicki.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134410008-9

MINC, Stefan

Stefan Mine and Stanislaw Kurowski, 'Einfluss des Mediums auf die Intensitäen der Raman-Resonanzlinie des p-Nitroanilins," Zeitschrift füer Elektrochemie 61/7, 1957, pp. 833-6.

Received on 2 May 1957.
The authors are affiliated with the Laboratory of Electrochemistry, Institute for Physical Chemistry, Polish Academy of Sciences, Warsaw.

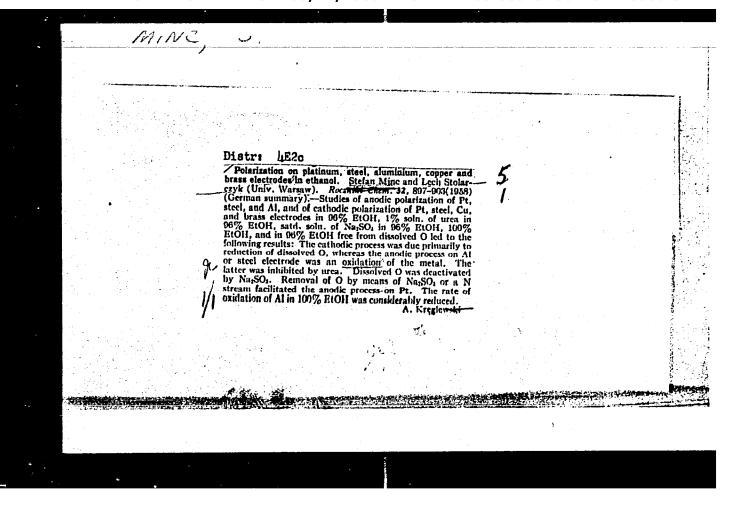
MINC, S.; LIBUS, Z.

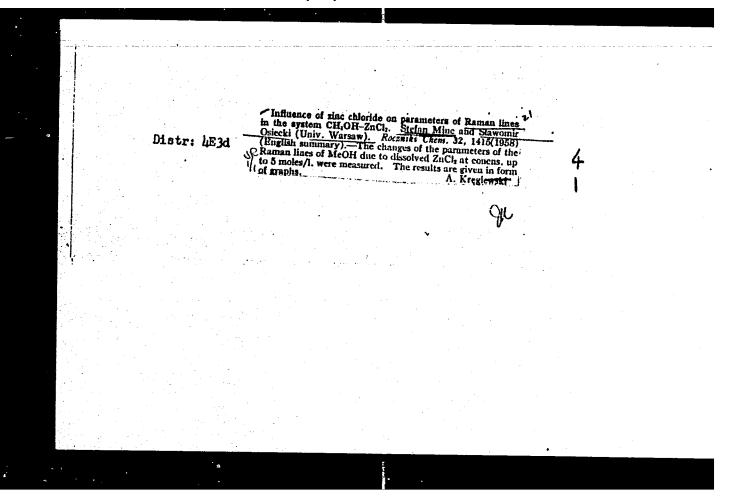
Research on the extraction properties of tributyl phospate esters, p. 81.

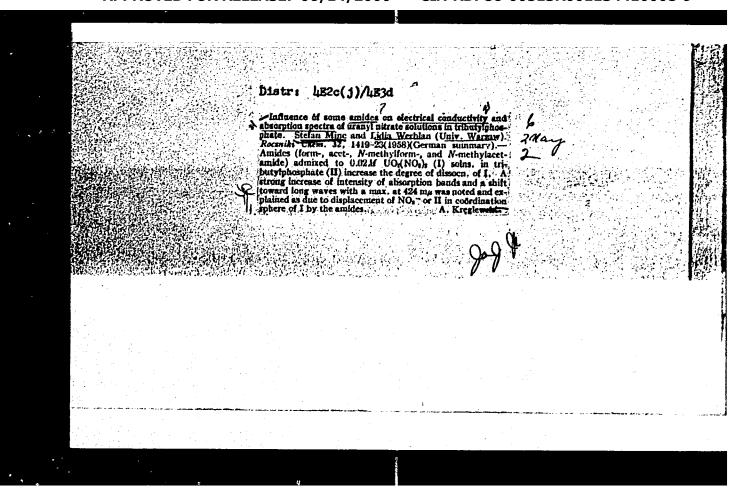
MUKLEOMIKA. (Polska Akademia Nauk. Komitet to Spraw Pokojowego Wykorzystania Energii Jadrowej) Warzzawa. Vol. 4, no. 1, 1958.

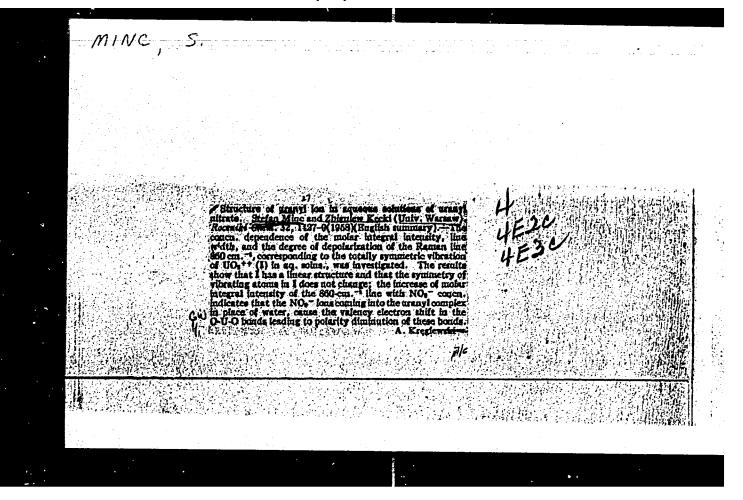
Monthly List of European Accession (EEAI) IC, Vol. 8, no. 7, July 1959.

Uncl.









AUTHORS:

Mints, Stefan (Minc, Stefan), Yastshembskaya, Yadviga (Jastrzebska, Jadwiga)

TITLE:

The Measuring of the Differential Capacity of a Double Electric Layer on a Dropping-Mercury Electrode in Methyl

Alcohol Solutions of KF, LiCl, NaCl and KCl

(Izmereniya differentsial'noy yemkosti dvoynogo elektricheskogo

sloya na kapel'nom rtutnom elektrode v rastvorakh KF, LiCl,

NaCl i KCl v metilovom spirte)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol. 120, Nr 1, pp.

114 - 115 (USSR)

ABSTRACT:

The following problem was regarded to be important in the investigations carried out by the authors: Does the different polarization power of the ions exert any influence on the structure of the double electric layer and on its capacity? The measurements carried out with aqueous solutions of the salts of alkali metals showed the following: The differential capacity of the double electric layer on a drouping-mercury electrode in solutions containing the ions Li⁺, Na⁺ and K⁺ differ only little and at a potential of about -1,1 V amount to

Card 1/3

from 15,5 to 16,5 μ F/cm². They increase little with an

The Measuring of the Differential Capacity of a SOV/20-120-1-30/63 Double Electric Layer on a Dropping-Mercury Electrode in Methyl Alcohol Solutions of KF, LiCl, NaCl and KCl

increase of the applied potential. The authors assume that the interaction of the ions with the electrode in methyl alcohol is stronger than in water and that therefore the effect of the different polarization power of the ions can be more easily recognized. Based on the measurements carried out by the authors (Ref 4) with 0,1 N-solutions of LiCl, NaCl, and KF as well as with a saturated solution of KCl in methyl alcohol it can be concluded that in the case of sufficiently great negative potentials (more than -1,2) differences in the capacities occur. The capacity is with a given value of the potential the greater the smaller the polarization power of the kations. The kations with the same polarization power must in the case of the same applied potential cause the formation of a double electric layer of the same capacity. Because of the difference of the concentrations of the used solutions the negative part of the curve of KCl is lower than the negative part of KF. There is 1 rigure and 4 references, 1 of which is Soviet.

Card 2/3

The headuring of the Pilferential Capacity of a 30//20-120-1-30/63 Double Blackele Layer on a Dropping-mercury Bleckrone in Bathyl Blackel Jolutions of KF, LiCl, Back and KCl

ASSOCIATION: Laboratoriya elektrokhimii Virshavskogo universiteta

(Laboratory of electrochemistry of warsaw Universit) baboratoriya elektrokhimii Instituta fizicheskoy khimi. Pol'skoy akademii mauk (Laboratory of Electrochemistry of the Institute of Physical Chemistry of the Polish Add

SUBMITTED: Januar

Januar/ 2, 1958, by A. M. Frankin, Member, Academy of

Sciences, USSR

PREJENTED:

December 15, 1957

1. Electrical double layer--Properties 2. Mercury electrodes--Appli

cations 3. Methyl alcohols--Applications

Jand 3/5

"APPROVED FOR RELEASE: 06/14/2000

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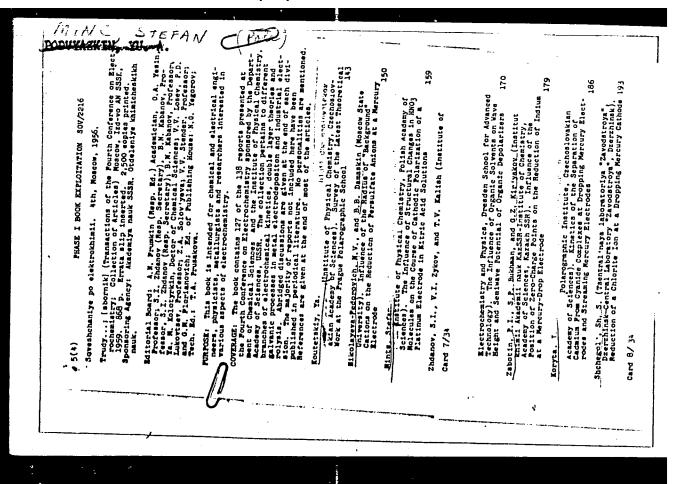
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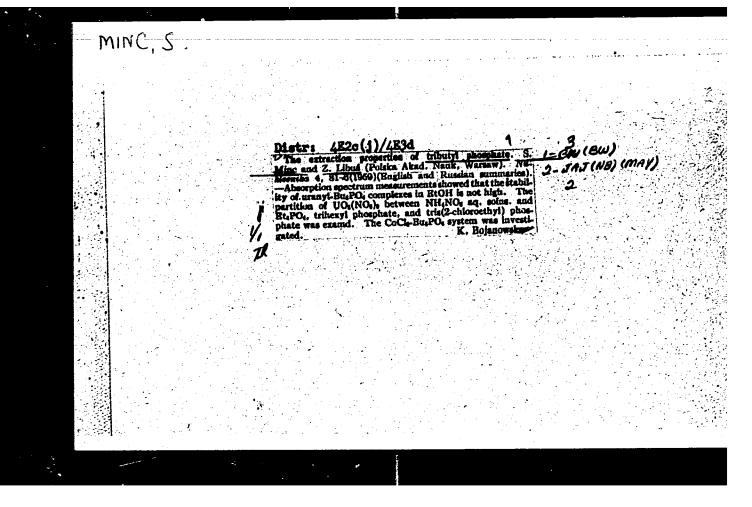
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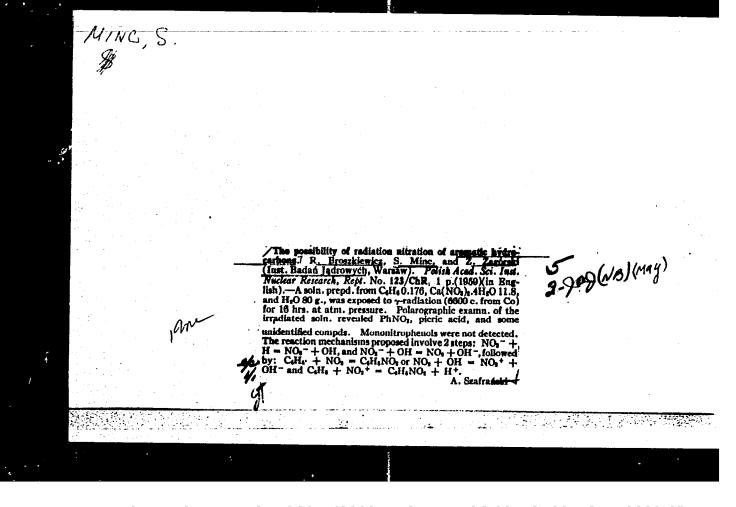
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CIA-RDP86-00513R001134410008-9



POL/46-4-1-7/15

5(4) AUTHOR: Minc, Stefan and Libus, Zofia

TITLE:

The Extraction Properties of Tributhylphosphate (Badanie ekstrakcyjnych wlasciwosci estu trobjbutylofoforowego)

PERIODICAL:

Nukleonika, 1959, Vol 4, Nr 1, pp 81-86 (Poland)

ABSTRACT:

The article reports on thorough investigations about the exchange reaction of extractions and stability of UO2 (TBP)2(NO3)2. Due to the limited solubility of the com-

plex in water, the spectroscopic determination of the exchange constant is made by dissolving dehydrated UO2(NO3) in a different molar ratio of alcohol and TBP by absorption-spectroscopy. Fig. 1 sh ws the spectroscope change at 3 different wave lengths (between 320-500 mm) depending on the solvent concentration. It became evident that the complex compound of alcohol with $U0_2(N0_3)_2$ is also limited, so that ut is sufficient for the calculation of the stability constant. Further, it can be taken from the diagram (1), that the constant of the exchange reac-

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POL/46-4-1-7/15

The Extraction Properties of Tributhylphosphate

tion for TBP is not very significant. The constant can be determined after measuring of the equilibrium. The partition of $U0_2(N0_3)_2$ between NH_4N0_3 water solutions and trethylphosphate, trihexylphosphate, and tri- $(\beta$ -chlorethyl)-phosphate shows that TBP has no extreme characteristics. Fig. 2 shows graphically the relation between the distribution coefficient and the number of moles of phosphate-ester in 1000 g. benzene. It is assumed that the stability of the complex compound is achieved by formation of 4-link chelatrings. The complex has a tetraedic form. In order to obtain a more thorough knowledge of the sterical factors of this complex, investigations (spectroscopic absorption-measurements) (Fig. 3) with CoClo and TBP with different concentration of LiCl are made and compared with each other. It is assumed that if LiCl is missing, the complex is the Co(TBP) (H20) Cl2 one, in case of surplus of LiCl, (CoCl₄) is obtained, in case of concentration Co(TBP)Cl3 is obtained. Further investigations are under preparation. There are

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POL/46-4-1-7/15

The Extraction Properties of Tributhylphosphate

3 graphs and 2 references, 1 of which is English and 1

French.

ASSOCIATION: Instytut chemii fizycznej PAN, Warszawa, zaklad elektrochemii (Physical-Chemical Institute, PAN, Warszawa, Department of Electro-Chemistry)

SUBMITTED: August, 1958

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CIA-RDP86-00513R001134410008-9" **APPROVED FOR RELEASE: 06/14/2000**

MINC, S.; SOBKOWSKI, J.

Activation heat of the hydrogen-ion discharge on the mercury electrode in aqueous and alcoholic HCl-solutions. Bul Ac Pol chim 7 no.1:29-36 *59. (EEAI 9:7)

1. Zaklad Elektrochemii Uniwersytetu Warszawskiego. Vorgelegt von M.Smialowski.

(Ions) (Hydrogen) (Ethyl alcohol)
(Electrodes, Mercury) (Water) (Alcohols)
(Methanol) (Hydrochloric acid) (Propyl alcohol)

24(7),5(4) AUTHORS:.

Minc, S., Kecki, Z.,

SOV/48-23-10-4/39

TITLE:

Investigation of Aqueous Solutions of Uranyl Nitrate by the Method of the Raman Spectrum of Light

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 10, pp 1182-1183 (USSR)

ABSTRACT:

One of the main tasks to be performed by the laboratory in which the authors work, is the investigation of the structure of electrolyte solutions and of the interaction between the ions and the molecules of the solvents, for which purpose, among others, also the method of the Raman spectroscopic investigation is used. Recently, the authors have investigated the interrelations between the Raman line parameters and the concentration of electrolyte solutions. One of the systems investigated was the aqueous solution of uranyl nitrate. The uranyl ion enters into strong interaction with the water molecules (complex formation). The characteristic UO₂²⁺-lines are: 860 cm⁻¹ (strong symmetric oscillations), 210 cm⁻¹ (weak, deformed oscillation), and

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Investigation of Aqueous Solutions of Uranyl Nitrate by the Method of the Raman Spectrum of Light SOV/48-23-10-4/39

concentration were investigated. For this purpose, the spectrograph of the type ISP-51 and Agfa-Raman-ortho-plates were used, and the spectrum was excited by means of the PRK-2 lamp. Photometrization was carried out on the MF-2-microscope. The degree of depolarization was determined by means of two crossed polaroid films, which were arranged in front of the slit of the spectrograph. Dispersion in the spectral range investigated amounted to 234 cm⁻¹mm⁻¹, the apparatus function to 4.7 cm⁻¹, and the spectral width of the slit to 6.5 cm⁻¹. The results obtained by determining the parameters of the line 860 cm⁻¹ are shown by a table. The molar integral intensity was calculated

according to the formula $\frac{1}{S_s} = \frac{S_s}{S_s t} \cdot \frac{n_{et}^2}{m_{et}^2} \cdot \frac{c_{st}}{c_s} \cdot 100$.

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S denotes the area bounded by the line contours, n - the refraction index, and C - the uranyl ion concentration in

Investigation of Aqueous Solutions of Uranyl Nitrate SO by the Method of the Raman Spectrum of Light

SOV/48-23-10-4/39

Mol/liter; the index st holds for the standard solution and the index s for the remaining solution. In the case under investigation the intensities were determined on the assumption that

the line 860 cm⁻¹ in the spectrum of a 0.93 M uranyl nitrate solution (standard) has the intensity 100. The results were averaged from 5 - 8 measurements. The root mean square error amounted to 10%. In a diagram I_{∞} is plotted versus $C_{\rm H_20}/C_{\rm NO_3}$

The line width was found to be practically unchanged. The degree of depolarization, which was found to be low, indicated a line configuration of the uranyl ion in the investigated solutions. There are 1 figure, 1 table, and 8 references, 4 of which are Soviet.

ASSOCIATION:

Laboratoriya elektrokhimii Instituta fizicheskoy khimii Polisko Akademii nauk (Laboratory of Electro-chemistry of the Physico-chemical Institute of the Academy of Sciences of Poland)

Card 3/3

24(7),5(4) AUTHORS: Minc, S., Osiecki, S.,

SOV/48-23-10-5/39

TITLE:

The Investigation of Solutions of Zinc Chloride in Methanol by the Method of the Raman Spectrum of Light

PERIODICAL:

Izvestiya Akademii nauk SSSR! Seriya fizicheskaya, 1959, Vol 23, Nr 10, pp 1184-1185 (USSR)

ABSTRACT:

Because of the interaction between the components electrolyte solvent the Raman spectra of the solvent and of the dissolved salt show considerable variations. In references 1 - 4 frequency variations were above all investigated. Kuchkarev et al. (Ref 4 variations were above all investigated. Kuchkarev et al. (Ref 4 variations were above all investigated of molecules in the already pointed out the strong interaction of molecules in the zinc chloride solution in methanol. This solution has already be zinc chloride solution in methanol. This solution has already be zinc chloride solution in methanol. This solution has already be zinc chloride solution in methanol. The methanol line. The

found a frequency decrease in the 1033 cm -methanol line. The present paper focuses its main attention on the concentration dependence of integral intensity, the degree of depolarization,

and the width of the line e-1033 cm⁻¹ (symmetric valence oscillation of C-0 in methanol). The method of investigation is the same as in reference 5. The spectrum was excited by the blue

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The Investigation of Solutions of Zinc Chloride in Methanol by the Method of the Raman Spectrum of Light

SOV/48-23-10-5/39

Hg-line of a PRK-2 lamp. Measuring results are shown by figures 1 and 2. In the case of zinc chloride concentrations of from 0 to 0.9 Mol/liter the integral intensity of the investigated lines increases considerably and the degree of depolarization decreases, which indicates a decrease of the polarity of the C-O bond of methanol as well as a symmetry increase of the methanol molecule. At concentrations > 0.9 Mol/liter intensity decreases and the degree of depolarization of the C-O line increases, which indicate a decrease of the symmetry of the methanol molecule and an increas of C-O bond polarity. In all cases the molar integral intensity of the 1033 cm -1 line in dissolved state compared to pure methanol was greater and the degree of depolarization was lower. Figure 2 shows the dependence of the width and the frequency of this line on ZnCl2-concentration. The line width shows an increasing and the frequency a decreasing tendency with increasing ZnCl2-concentration. The parameters of other lines were not determined because of the lower intensity of these lines and the intensive backgroun There are 2 figures and 7 references, 5 of which are Soviet.

Card 2/3

The Investigation of Solutions of Zinc Chloride in Methanol by the Method of the Raman Spectrum of Light sov/48-23-10-5/39

ASSOCIATION: Laboratoriya elektrokhimii Instituta fizicheskoy khimii Pol'skoy Akademii nauk (Laboratory for Electrochemistry of the Institute of Physical Chemistry of the Polish Academy of Sciences)

Card 3/3

MINC, S.; SZYPANSKI, A.

Preparation of ${\rm UO_{li}} \cdot 2{\rm H}_2{\rm O}$ during glow discharges in aqueous uranyl salt solutions. p. 551

ROCZNIKI CHEMII. (Polska Akademia Nauk) Warszawa, Poland, Vol. 33, no. 2, 1959

Monthly List of East European Accessions (EFAI) LC, Vol. 8, No. 9, September 1959. Uncl.

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Minc, Stefan; Rafalski, Wadim

AUTHOR: TITLE:

a a a B

Production of Compact Metallic Thorium by Means of Fuse Salt

Electrolysis \

Nukleonika, 1960, No. 1-2, pp. 47-54. PERIODICAL:

The authors describe an experiment in which they produced solid metallic thorium by means of electrolysis of molten salts in a bath containing 0.4n ThF4, 0.5n CaF2 at a temperature of about 1,100°C and a current density of about 650 a per square decimeter. As indicated in the introduction, electrolysis of salts according to Driggs and Liliendahl (Ref. 5, 6) yields powderized metal. Latest research has shown the practicability of thorium reduction from halogen compounds dissolved in a mixture of alkali metal halogens. In order to examine the ways of solid thorium production, the authors electrolyzed a molten mixture of thorium, calcium and zinc salts. Calcium salt was used for the considerable heat of reduction of calcium. The test equipment consisted of an airtight steel tank with a graphite crucible placed on the bottom and serving as the

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Production of Compact Metallic Thorium by Means of Fuse Salt Electrolysis

anode. A concentrical molybdenum rod, 6 mm in diameter, constituted the cathode. The tank was placed in a vertical silit (silicon carbide) furnace heated by a temperature-controlled (+20°C) transformer. Argon, purified from oxygen, nitrogen, and humidity, was forced through the tank during electrolysis. Fig. 1 shows a cross section of the steel tank; the electrical wiring system is shown in Fig. 2. Electrolysis was performed by means of direct current from a selenium rectifier. The use of electrolyte I (0.4n ThF4, 0.5n CaCl2 and 0.1n ZnCl2) at a temperature lower than the boiling point of ZnCl2 resulted in a powder deposit. The first nugget of solid metal along with metallic powder was obtained at a temperature of 900°C, or higher than the boiling point of ZnCl2, at a current density of about 600 a/10 cm2. Electrolyte II consisted of 0.4n ThF4, 0.5n CaF2 and 0.1n ZnF2. The optimum temperature and current density, required to produce solid metal on the cathode as established in a sequence of tests, was about 1,100°C and about 650 a/10 cm2 respectively. Solid thorium obtained under these conditions from electrolyte II had a specific density of 11.1 gr/cm3 and the chemical composition 94.4% Th, 2.7% Fe and Al and a number of other elements, with traces only of Zn.

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P/046/60/005/001-2/002/008 A222/A026

Production of Compact Metallic Thorium by Means of Fuse Salt Electrolysis

Impurities originated from the crucible, tank and salts. There are 6 figures and 9 references: 3 Soviet, 3 English, 2 German and 1 Polish.

ASSOCIATION: Zakład Elektrochemii i Korozji Uniwersytetu Warszawskiego
(Department of Electrochemistry and Corrosion, Warsaw
University)

Zakład Elektrochemii Instytutu Chemii Fizycznej PAN
(Department of Electrochemistry, Institute of Physical
Chemistry, Polish Academy of Sciences)

SUBMITTED:

November 1959

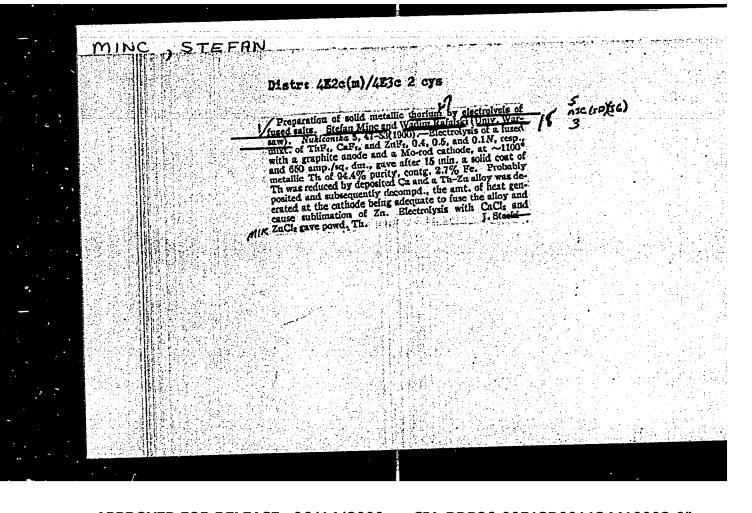
Card 3/3

/ Influence of surface-active substances on the contact potentials of electrolytic deposits of cadmium. S. Minc and Z. Feldblum (Univ. Warsaw). Electrockini. Acta 2, 121-9(1960)(in German).—The contact potentials of electrolytic deposits of Cd were studied by the dynamic condenser method against a Au plate in air. The deposits were obtained from buffered sulfate soln. in the presence of gelatin, thiourea, tetramethylammonium iodide, Na anaphthalenesulfonate, and some mixed addns. An explicit influence of c.d., of type of substance added, and of concen. on the contact potentials was observed. A better quality of Cd deposits (better compactness and fine-grain structure as detd. microscopically) was assocd. with a decrease of the electron work function. Application of the method to the study of electrolytic redn. processes and to problems of catalysis is suggested. Bract interpretation requires the knowledge of the electron work functions of the different crystallographic faces. P. Van Rysselbergha

APPROVED FOR RELEASE: 06/14/2000

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CIA-RDP86-00513R001134410008-9"



MINC, Stefan; SIEKIERSKA, Maria

Formation of chlorouranyl complexes in isopropyl alcohol. Wukleoniks 5 no.3:109-114 '60.

1. Katedra Elektrochemii, Uniwersytet Warszawski i Zaklad Elektrochemii Instytutu Chemii Fizycznej, Polska Akademia Mauk, Warszawa.

BROSZKIEWICZ, B.; MINC, S.; ZAGORSKI, Z.

The possibility of radiation nitration of aromatic hydrocarbons. Bul chim PAN 8 no.3:103-104 '60. (EEAI 10:9/10)

1. Laboratory of Radiation Chemistry, Institute of Nuclear Research, Polish Academy of Sciences. Presented by T. Urbanski.

(Radiation) (Nitration) (Hydrocarbon)
(Aromatic compounds)

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410008-9

